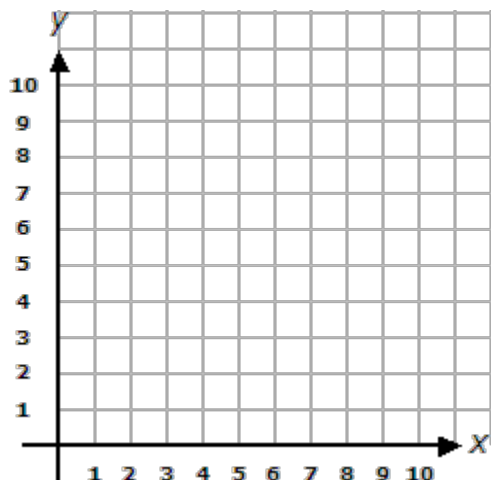


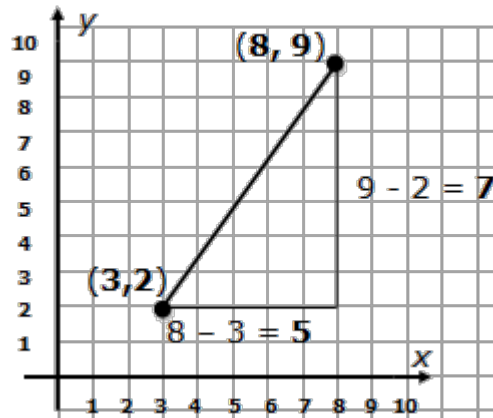
Follow the steps below (the first one is done for as an example):

1. Plot the two points with the coordinates shown below.
2. Draw a line to join them and form a right triangle with this line as the hypotenuse.
3. Use the coordinates to find the lengths of the short sides of the triangle.
4. Calculate the distance (d) between the two points (length of the hypotenuse) using the Pythagorean Theorem.

(3, 2) and (8, 9)



**Solution**

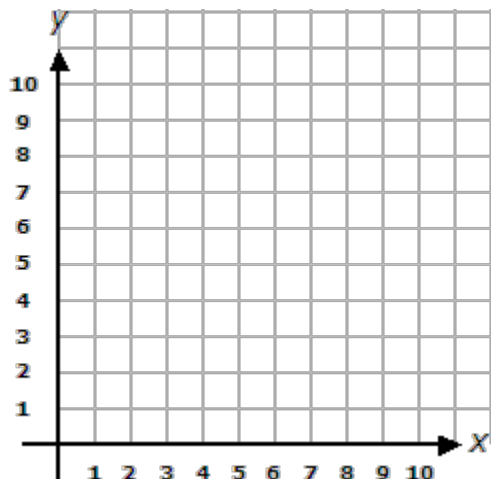


$$d = \sqrt{5^2 + 7^2}$$

$$d = \sqrt{74}$$

$$d = 8.602$$

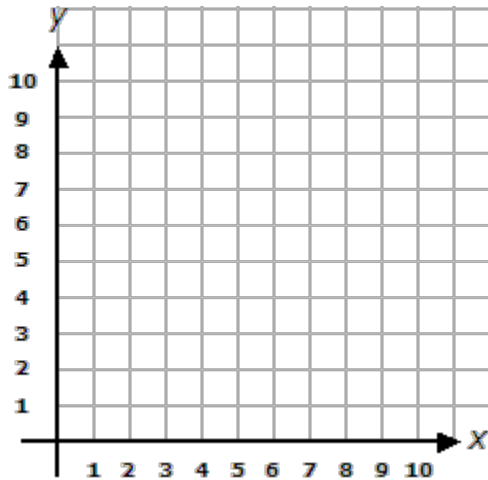
(2,4) and (10,8)



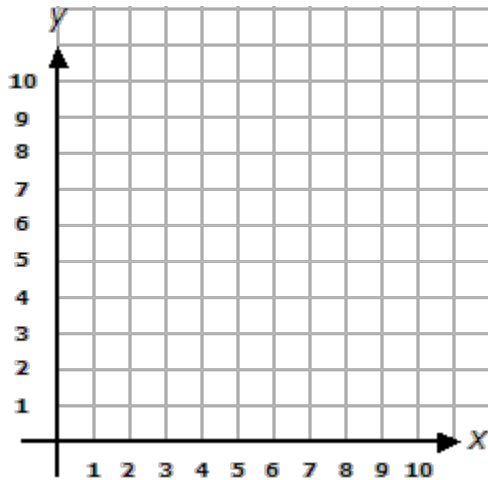
Follow the steps below (the same as Page 1):

1. Plot the two points with the coordinates shown below.
2. Draw a line to join them and form a right triangle with this line as the hypotenuse.
3. Use the coordinates to find the lengths of the short sides of the triangle.
4. Calculate the distance (d) between the two points (length of the hypotenuse) using the Pythagorean Theorem.

$(3, 8)$  and  $(7, 3)$



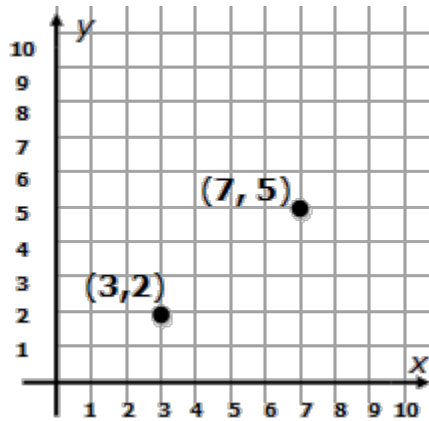
$(2, 1)$  and  $(6, 8)$



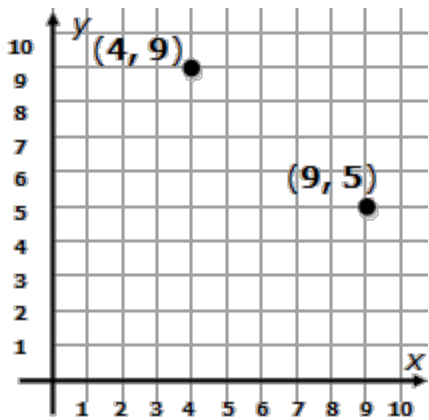
Use the formula below to calculate the distance, (d) between each pair of points.

$$\text{distance} = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

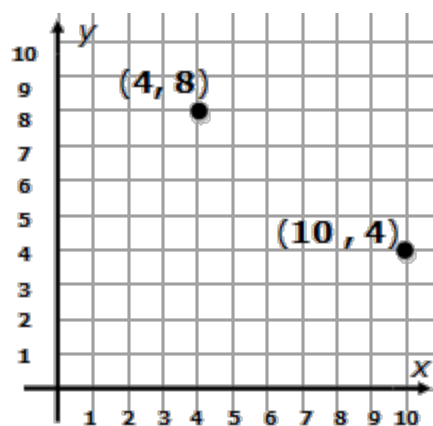
(3, 2) and (7, 5)



(4, 9) and (9, 5)



(4, 8) and (10, 4)

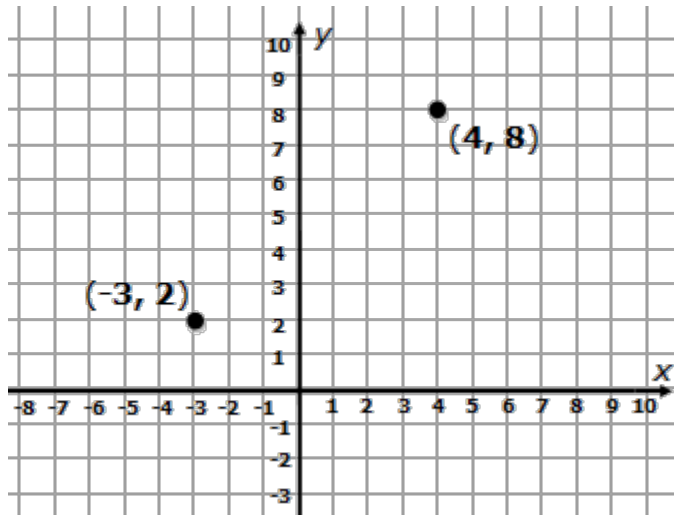


Use the formula below to calculate the distance, (d) between each pair of points.

$$\text{distance} = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

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$(-3, 2)$  and  $(4, 8)$



$(-6, -4)$  and  $(3, 7)$

